BEDIENUNGSANLEITUNG
OPERATING INSTRUCTIONS
MODE D'EMPLOI
ISTRUZIONI D'USO
GEBRUIKSAANWIJZING
BRUKSANVISNING
BLAUPUNKT
CODE
TRAVEL ARI
AUTODIVERSITY
PCI
CPS
SCA
BERLIN IQR 88
MTL
ON
PCI
ARI
REG
AVC
MOD
1
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3
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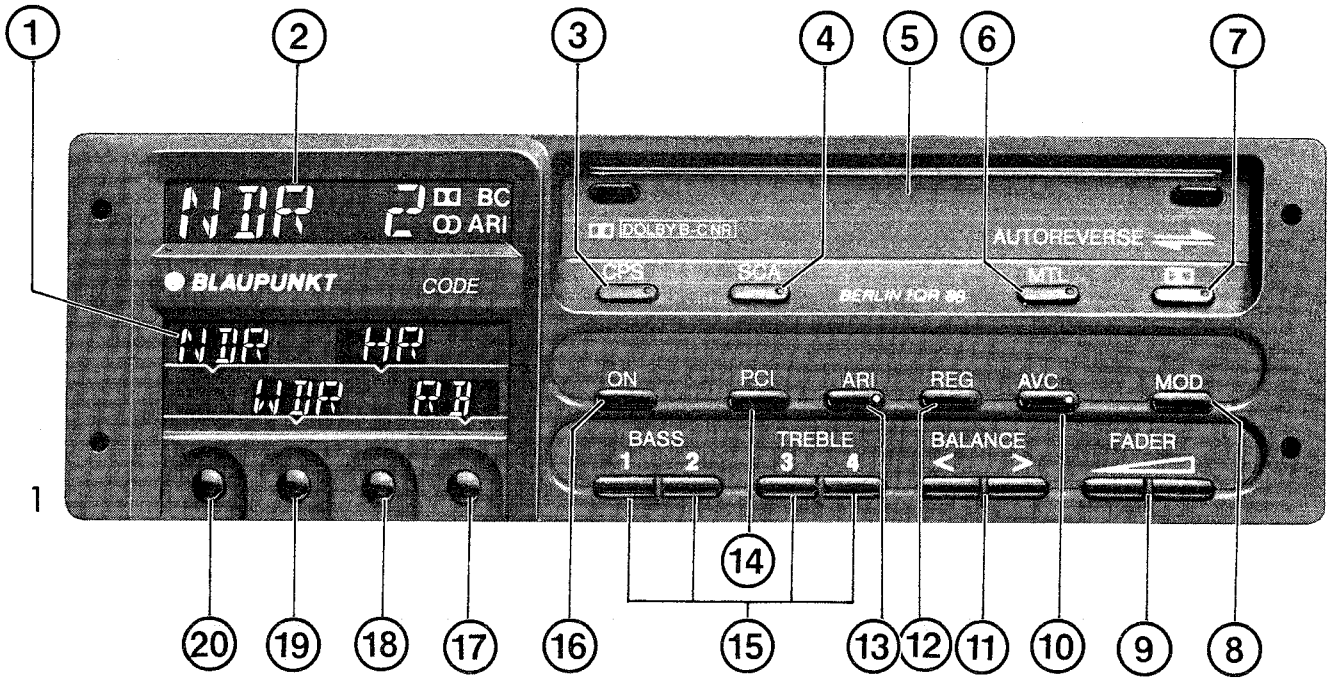
BLAUPUNKT
BERLIN IQR 88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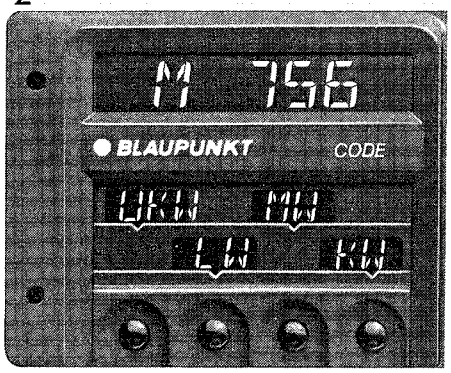
BLAUPUNKT
CODE

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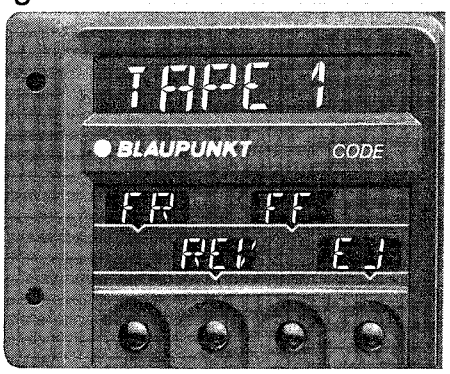
TAPE 1
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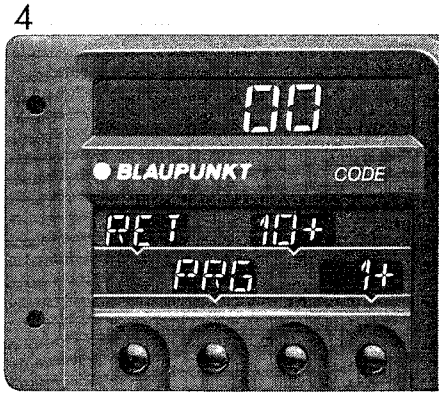
BLAUPUNKT
CODE

If you need servicing:

In view of its sophisticated features, the Berlin IQR 88 has priority if servicing becomes necessary.

If your Berlin radio becomes defective, kindly contact your specialized dealer who will get in touch with the Blaupunkt agent in your country.

Important Notes

Apart from its normal operating functions, the set is equipped with test programs which may be triggered by improper handling. If this happens, you should switch the set off for a short while. Afterwards your Berlin IQR 88 may be operated as usual.

Attached to the set you will find 2 windscreen stickers showing that your set is protected against theft by code. You may affix them to a conspicuous spot of your car to deter any potential thieves.

Madame, Monsieur,

Vous avez porté votre choix sur un Berlin IQR 88. Nous vous remercions de votre confiance et vous offrons avec cet autoradio de haute qualité une gamme de fonctions à commande électronique.

Nous vous prions de lire ce mode d'emploi attentivement. Il vous donnera toutes les informations nécessaires pour commander les fonctions du poste. Vous trouverez que la manipulation est très facile, car

— les deux afficheurs du poste vous montrent ce qu'il faut faire ou ce que vous avez fait,
— en mode PCI, les stations de radiodiffusion offrant la meilleure réception peuvent être affichées et rappelées directement,
— le dispositif AVC (Automatic Volume Control - commande automatique de volume) assure une adaptation du volume lorsque vous roulez.

***

Nous sommes convaincus que vous ne regretterez pas votre décision d'acquérir un Berlin IQR 88.

Blaupunkt-Werke GmbH

Description succincte

① **Afficheur multifonctionnel** (en bas)
indique la fonction des touches situées en dessous, par exemple les gammes d'ondes en mode réception radio.

② **Afficheur principal** (en haut)
indique la fonction activée, par exemple la fréquence en mode réception radio.

③ **Touche CPS** (Cassette Program Search - Recherche des blancs)
La fonction CPS permet de sauter ou de répéter des morceaux musicaux en connexion avec le défilement rapide.

④ **Touche SCA** (SCAN - balayage)
La fonction SCAN permet de balayer la cassette automatiquement, en connexion avec le défilement rapide.

⑤ **Compartiment cassette**

⑥ **Touche MTL** (Metal, égalisation 70 μsec)
pour reproduire des cassettes au dioxyde de chrome (CrO_2) et au fer pur (métal), enfoncez cette touche.
Libérez cette touche pour reproduire des cassettes au trioxyde de fer (Fe_2O_3) et au ferrochrome (FeCr) (égalisation 120 μsec).

⑦ **Touche DD (Dolby NR)**
Touche enfoncée (s'allume) - vous pouvez écouter les cassettes enregistrées selon Dolby NR B ou Dolby NR C. Appuyez plusiers fois sur cette touche pour commuter de "Dolby NR-B" à "Dolby NR-C" et "sans Dolby NR".
Le fonctionnement choisi est indiqué à l'afficheur ② (fig. 1).

⑧ **Touche MOD** (Mode)
pour commuter les fonctions de la rangée de touches située en bas, permettant de régler les graves, les aigus, la balance et le mélangeur.
La touche enfoncée, les fonctions alternatives s'allument. Le réglage se fait comme décrit (voir les positions correspondantes).
10 secondes après le dernier réglage, le poste commute automatiquement sur les fonctions initiales (les lettres rouges s'éteignent).
Le poste commute immédiatement sur les fonctions initiales si vous appuyez encore une fois sur la touche MOD. Celle-ci est aussi requise pour le codage (dispositif antivol).

⑨ **Touches** ◿◺
pour régler le volume.
Appuyez sur la touche à droite - le volume augmente progressivement.
Appuyez sur la touche à gauche - le volume diminue progressivement
La touche MOD enfoncée, le mot "FADER" s'inscrit en rouge sur le symbole ◿◺.
Vous pouvez alors régler le volume des H-P arrière en appuyant sur la touche à gauche, ou le volume des H-P avant en appuyant sur la touche à droite.

⑩ **Touche AVC** (Automatic Volume Control – commande automatique de volume)
Touche enfoncée (s'allume) - la commande automatique de volume est en service.
Cette fonction est mise hors service par pression sur la touche.

⑪ **Touches** <> (recherche des stations)
Appuyez sur la touche à droite - la recherche part en direction des fréquences élevées.
Appuyez sur la touche à gauche - la recherche part en direction des fréquences basses.
Touche MOD enfoncée (le mot BALANCE s'allume), vous pouvez régler la balance à l'aide de ces touches.

- During a traffic message, adjust the volume, bass, treble, balance and fader controls to your satisfaction.

This adjustment remains stored.

Automatic Volume Control (AVC)

Your Berlin IQR 88 is equipped with AVC. The task of the AVC facility is to automatically adjust the volume of your car radio to vehicle noise, e.g. to match the volume to changing vehicle speed, so that continuous manual re-adjustment of the volume is generally no longer necessary.

With this facility, Blaupunkt is making a major contribution to road safety and it is a facility which you soon will not want to be without. This AVC facility has been completely redeveloped from scratch. When it is switched on, this AVC system will adjust itself automatically to the noise level of your own vehicle, if you adjust the AVC accordingly whilst the vehicle is in motion after the unit has been reinstalled.

If you would like the volume to be controlled automatically in your vehicle,

- press the AVC button (lights up).

If you press the button again, the AVC facility is switched off.

You can change the basic adjustment of the AVC as follows:

- Press the AVC button for approx. 2 seconds until the message AVC appears on the master display and the current status (–8 to +8) appears (fig. 6).

If you would like the automatic volume control facility to cut in earlier,

- press the button under the plus sign until the desired value is set.

If you would like the automatic volume control facility to cut in at a later point,

- press the button under the minus sign
- and press then button „ESC".

The adjustment remains stored in memory.

Anti-theft security-coding system

A freely selectable four-number code renders the Berlin IQR 88 unusable to thieves.

In addition, you can enter your car registration number up to a maximum of 12 digits (owner identification).

As soon as the power supply to the Berlin IQR 88 is interrupted (e.g. in the event of theft or if servicing work is done on the vehicle), the entered data for the registration number is displayed for 10 seconds. The unit then requires that the correct code numbers be entered. Thanks to this data which can be read by anybody, it can easily be proved who owns this unit.

If the sequence of numbers entered is incorrect, the unit initially blocks the entry of a code number for 10 seconds.

The word „Wait" appears on the master display. The unit cannot be operated during this period. Every time an incorrect number is entered, the time interval doubles. This means, for instance, that approx. 6 hours are required for 12 incorrect tries.

If the unit is not coded, the Berlin IQR 88 can be switched on again every time the voltage is interrupted, even without coding.

If you would like to security-code your unit, select a four-digit number and note this down.

Caution:

What ever happens, note down your secret code number. If you have forgotten your code number, you too will not be able to switch on the unit after the supply voltage has been interrupted.

In such a case, the Berlin IQR 88 can only be decoded in our central customer service workshop or by our sales agents abroad, and a charge will be made for this.

Entering the code

The code can be entered during radio operation as follows:

- Switch on the unit and
- press the MOD button ⑧ for at least 8 seconds.

If the unit has never been coded, the message „Code" appears on the master display and the following messages appear on the multifunctional display:

ESC — Escape

CLR — Clear (fig. 6)

You can enter any 4-digit code with the aid of buttons 1-4 ⑮.

- Press button 1 until the first digit is set as required on the master display.
- Press buttons 2, 3 and 4 in the same way until the desired code is displayed, e.g. 1234 (fig. 7).

Now press the PRG button (program), thus storing your personal code number. The message „ID" (identify) appears on the display (fig. 8).

If you don't want to enter your vehicle registration number,

- press button „ESC".

If you would like to enter your vehicle registration number:

- press the button under „ID".
  „IDENT" appears on the master display (fig. 8).

You will see 12 times „- -" on the multifunctional display. The flashing marking shows the position at which the input should be made.
This marking can be moved by pressing the buttons ⑲ and ⑳.

The numbers, letters and signs can be entered using buttons ⑱(forwards) and ⑲ (backwards).

The following digits can be entered:

0 ... 9, - -, (blank), A ... Z

- Set the marking at the desired position using buttons ⑲ and ⑳ and
- select a letter, number or sign using buttons ⑰ and ⑱.
- Move the marking to the next position and enter the next digit.

In this way, you can enter the complete registration number of your vehicle (fig. 10). And now

- press the MOD button ⑧.

Your car registration number is now stored.

Supply of current interrupted

In the event of the supply of current being interrupted, after the unit is switched on the entered car registration number appears on the multifunctional display for 10 seconds and then the message „Code" appears on the master display (fig. 11).

- Enter your personal code with the aid of buttons ⑮ and
- press ENT (Enter code).

If the code entered is correct, the unit is ready for operation.

If the code entered is incorrect, the message „WAIT" is shown on the display for a period of 10 seconds (fig. 12). This interval doubles after each incorrect entry.

Changing code

Should you wish to change or clear your secret code,

- press the MOD button for at least 8 seconds while the radio is in operation.

The entered vehicle registration number appears on the multifunctional display for 10 seconds and then the message „CODE" appears on the master display, and the message „ENT" appears on the multifunctional display (Enter code). See fig. 10.

- Enter the previous code and
- press „ENT".

The messages „ESC", „PRG", and „CLR" appear again on the multifunctional display (fig. 7).

- If you wish to clear the code, press the CLR button (clear).

The unit is then decoded, i.e. the security code is no longer operational. If, however, you would like to enter a new code, proceed as described above.

If you press the ESC button instead of the CLR or PRG buttons, this procedure will be terminated and the radio will come on again.

Technical Data

Wavebands:
U (FM) 87.4 - 108.1 MHz
K (SW) 5.945 - 6.205 MHz
M (MW) 513 - 1602 kHz
L (LW) 146 - 281 kHz
Music output: 4 x 25,5 W acc. to DIN 45 423/3.2
Sine output: 4 x 23 W acc. to DIN 45 321/3.1
Frequency response (cassette): 40 - 18,000 Hz
Tone modulation range: approx. ± 12 dB

Accessories (not included in delivery):

Goose neck control unit

Attention!

Stiff cassettes may change from track to track without warning. After switching tracks for several times, the cassette is ejected automatically. Should this happen the tape winding should be inspected, and respooling the cassette may prove helpful.

Dolby NR

This unit can be used to play back cassettes which have been recorded

a) with Dolby B NR

b) with Dolby C NR

c) without noise reduction

On cassettes which have been recorded with Dolby NR*, background hiss is much lower and dynamics are better. Dolby C NR goes a stage further than Dolby B NR and reduces undesired background hiss even further.

If you want to play back a cassette which was recorded with Dolby NR,

- Press button DOLBY repeatedly to choose the appropriate playback mode for your cassette.

* Noise reduction system manufactured under licence from Dolby Laboratories. The word Dolby and the double D symbol are the trademarks of Dolby Laboratories.

SCA button (Scan)

This function will make it easier to find particular music tracks during cassette playback.

You will hear the music tracks on the tape one after the other for a few moments. The first bars of a music track are played back, then the tape is wound quickly on or back to the beginning of the next music track, which is then played back briefly.

If you wish to activate the Scan function, you should

- press the SCA button ⑬ (lights up), and the FR button (fast rewind) or FF button (fast forward).

The master display shows the activated function (for instance, FF1 - fast forward, track 1). The tape will be wound quickly on or back (depending on the selected direction) and play back the next music track (SCAN1 or 2 now appears in the display), and is quickly wound on or back to the next music track.

If you would like a music track to be played back in full,

- press the PLY button.

The music track is then played back without interruption.

If you wish to deactivate the Scan function,

- press the SCA button.

The indication in the display disappears, and the set switches to cassette playback.

- The cassette is ejected by pressing the EJ button, and the set operates in the mode that was last selected.

The selected cassette functions remain stored even after the set has been switched off.

The CPS button

CPS means:
Cassette **P**rogramme **S**earch.
This facility enables you to skip or replay individual music tracks.

- Press the CPS button.

If you wish to skip a particular music track, in other words to wind the tape on quickly to the beginning of the next music track, you should

- press the fast forward button FF.

If you wish to replay the music track which you have just heard, in other words to rewind the tape quickly to the beginning of this music track, you should

- press the fast rewind button FR.

You can cause a music track to be replayed up to 8 seconds after the start of the subsequent track. The CPS system functions only when there is a pause between music tracks of at least 3 seconds.

By pressing the button again, you stop the CPS function.

Care of your cassettes and unit

This car radio is a precision unit.
Its cassette mechanism is equipped with a high-performance tape head, giving it a long life and top quality reproduction.
In order to ensure trouble-free operation, please look after your cassettes and your equipment.
We recommend the *use of C 60/C 90 tape cassettes.*
You may expect less wear and tear on the running parts and better operation behaviour from a cassette produced by a *leading manufacturer.*
Metal, ferrous oxide, chromium dioxide and ferrichrome cassettes can be used.
Protect your cassettes from dirt and dust by keeping them in suitable containers.
Heat exceeding 50° C, e.g. direct rays of the sun, may damage your cassettes.
During cold weather, allow any cassettes left in the car to warm up before playing.
In this way, you will avoid irregular tape running. Where there is a slight accumulation of dirt we recommend cleaning these parts with a wet or dry cleaning cassette. You can buy such cassettes from your specialized dealer. Operating trouble and sound interference may occur after about one hundred hours playing time, depending on tape quality. This is caused by dust from the tape adhering to the rubber roller pad and the tape head. In the event of a heavy accumulation of dirt, clean these parts with a cotton wool bud dipped in methylated spirits. Never use hard tools for this.
After a lengthy period of use, the unit should be examined and thoroughly cleaned by an expert.
This maintenance work is not part of the service covered by our guarantee conditions.

Sound, Balance, ARI ◿ , AVC

Sound, balance and fader adjustment

By pressing the MOD button (Mode), you may alter the functions of the lower row of keys in order to adjust bass, treble, balance and fader.

- Press the MOD button ⑧. The red letters light up above the corresponding buttons. These functions may now be adjusted.

  The adjustment in question is indicated in the master display. If none of these buttons is pressed within 10 seconds, the set switches back to the normal operating mode. This will also happen if a wrong button is pressed.

  Bass
  Button 1 - bass is reduced
  Button 2 - bass is boosted

  Treble
  Button 3 - treble is reduced
  Button 4 - treble is boosted

  Balance
  Button < - left speakers louder
  Button > - right speakers louder

  Fader
  Left button pressed - rear speakers louder
  Right button pressed - front speakers louder

ARI ◿ (Setting volume and sound for traffic messages)

You may not only set the volume of traffic messages separately, but also their balance, fader, treble and bass adjustments.

This adjustment must be made when a traffic message is broadcast. It will then remain stored for all future messages. The basic values will not be altered by this separate adjustment.

This separate adjustment offers the advantage that the driver, by altering fader and balance settings, may shift the traffic message to the speaker next to him (left front), so that his passengers are disturbed as little as possible by these messages.

Furthermore, a highly speech-oriented sound ajustment may be preset for traffic messages, whereas a more voluminous sound adjustment might be preferred for reproduction of music tracks.

ted program (using the automatic frequency diversity), and switches to a different frequency, if required, without your being aware of it.
If you leave the transmission range of the selected program, causing reception quality to deteriorate, we recommend to switch to a different program of the radio stations indicated in the lower display.

If after approx. 2 minutes no radio stations are indicated in the lower display although PCI is switched on, you should check on the station data cassette whether you have stored the station data valid for your particular area. If necessary, store the data for the new region by means of a station data cassette.

Reception of regional programs

Certain programs of radio stations are divided at certain times into different regional programs. For example, the first program of NDR sometimes transmits different regional programs to Schleswig-Holstein, Hamburg and Niedersachsen.

If you wish to receive a particular regional program, you should first select the radio station, then press the program selection button ⑮ (1 for NDR1), and finally press the REG button ⑫ until the right code letter (e.g. **N** for **N**iedersachsen) appears in the display. You will now only receive this regional program.
By pressing a program selection button or the REG button (several times, if necessary) until the number of the radio program appears, this function is switched off again.
If not all regional programs may be received at a particular location, these are skipped automatically.
You may switch PCI off again by pressing the PCI button (for instance, if you wish to switch to a different waveband).

- Press button ⑭ repeatedly until the multifunctional display indicates the waveband symbols.

Reception of traffic messages with Travel ARI

Certain FM stations broadcast local traffic messages from time to time. The Travel ARI system will make it easier for you to find these stations.

The Travel ARI system is based on the well-known ARI system. You may listen to your favourite radio program or a cassette, and still receive traffic messages of a certain station.

When the Travel ARI system is switched on, the secondary receiver automatically searches the ARI station offering the best reception properties. If a traffic message is broadcast, the regular program is interrupted.

If you leave the reception area of your ARI station, the set switches automatically to another ARI station offering good reception.

If the PCI function is switched on, you may select your favourite program from the ARI stations which may be received. You will hear the traffic messages of this station until you leave its range.

Travel ARI during radio reception without PCI or cassette playback

If you wish to receive traffic messages during normal radio reception or cassette playback, you should

- press the ARI button (lights up).

The set will now search the strongest ARI station. The master display indicates briefly the zone identification and the frequency of the ARI station, and then switches back to the operating mode you selected.
If a traffic message is broadcast, the program you selected is interrupted (radio or cassette).

Travel ARI during radio reception with PCI

If you wish to activate the Travel ARI system while PCI is switched on, you should

- press the ARI button (lights up).

In the master display you will for about 4 sec. see the code of the strongest ARI station to be received (e.g., NDR2, fig. 5), as well as the ARI symbol.

If a traffic message is broadcast, the program you selected is interrupted (radio or cassette).

Selecting an ARI station

You may store a particular ARI station irrespective of the waveband you wish to listen to, or even during cassette playback.

- Press the ARI button.

In the master display you will for about 4 sec. see the code of the strongest ARI station to be received (e.g., NDR2, fig. 5), as well as the ARI symbol. The multifunctional display indicates all ARI stations that may be received.

- While the ARI symbol lights up press the button for the radio station you wish to receive. The ARI station broadcast by this radio station is now stored, even though a different ARI station may offer better reception properties. If you leave the range of the stored station, the set switches automatically to the strongest ARI station to be received.

Setting the volume for traffic messages

see ARI ◿, page 22.

Travel ARI test

If you want to know which ARI station you are listening to, you should

- press the ARI button (for more than 2 seconds).

The master display will then show you the frequency and the applicable zone identification or, if PCI is switched on, the program code (e.g., D 92,1 or NDR2 ARI).

Interrupting traffic broadcasts

You may interrupt a traffic message if you prefer to listen to the regular program instead of the traffic message. In this case

- press the NXT button (**NEXT** — next traffic message). You will now hear the regular program, but the following traffic messages will be broadcast.

If you press the ARI button again briefly, the ARI function is deactivated. In this case the Travel ARI station no longer remains in the memory.

Cassette playback

To obtain the best possible playback quality, the cassettes should always be played back on the system which was used to make the recording.

- Check whether your cassette is a chrome dioxide (CrO_2), metal or ferric (normal) cassette.
- Check whether your cassette is a Dolby B NR or Dolby C NR-encoded cassette.
- Insert the cassette into the cassette compartment (side A or 1 facing upwards). The set is switched on automatically, and the cassette is played back in the direction that was last selected.

  The master display indicates which track is being played back (TAPE1 = track 1). In the multifunctional display, the symbols for the following functions appear above the corresponding buttons (fig. 3):

  FF Fast forward
  the set switches to the other track when the end of tape is reached, and the cassette is played back.

  FR Fast rewind
  the set switches to cassette playback when the end of tape is reached
  Stop fast tape transport by pressing the PLY button

  PLY Play
  Lights up instead of REV during fast tape transport

  REV Reverse
  the master display indicates which track is being played back (TAPE1 = track 1)

  EJ Eject
  By pressing one of these buttons the function in question is activated and indicated in the master display (e.g., FF2 -fast forward, track 2).
- Press the MTL button ⑥ (lights up), if you listen to a metal or chrome dioxide cassette.
- Press button ◻◻ repeatedly to choose the appropriated playback mode for your cassette. The selected mode (◻◻ B, ◻◻ C) is shown in the master display ②. If no Dolby symbol appears, the cassettes will be played back without Dolby NR.

Notes on operation

Radio reception without PCI

Switching on

Switch the set on by

- pressing the On button ⑯.
- Press the PCI button (if necessary, twice) until the symbols of the four wavebands FM, MW, SW and LW appear in the lower display (pos. ⑰ - ⑳).
  PCI is now switched off (fig. 2).

Selecting a station

Select the desired waveband and

- press the corresponding button (for MW, for example, button ⑱).
  The upper display ② indicates M and the frequency that was last selected (fig. 2).
  If the station being received is an FM ARI station, the chosen waveband (U) appears briefly in the display, followed by the corresponding zone identification letter.

If you wish to listen to a different station,

- press the <> buttons ⑪ for search tuning.
  Button > pressed to the right - search tuning starts towards the higher frequencies.
  Button < pressed to the left - search tuning starts towards the lower frequencies.
- Press this button repeatedly until the desired station is found.

Storing stations

During standard radio reception, buttons 1 - 4 ⑮ act as preset buttons. You may store four stations each on every waveband.

- Press the preset button on which you would like to store the station until the program is audible again.
  The upper display indicates the waveband symbol and the number of the preset button you had pressed in, e.g. MW, preset button 3. Shortly afterwards the display switches over to indicate the waveband (or the ARI zone identification) and the frequency (fig. 2).

Some stations transmit at a frequency that has two digits behind the decimal point. In this case the last digit is rounded up (e.g., 89.75 MHz is displayed as 89.8).

Manual search tuning

During standard radio reception, you may switch to manual search tuning on all wavebands by pressing the REG button ⑫. This is necessary if you wish to store a station beyond your actual reception range.

- Press the REG button, and
- tune in to the desired frequency by means of buttons ⑪.
- Store the frequency on a preset button as described above.

By pressing the REG button again or by switching to a different waveband, the automatic search tuning facility is again activated.

Note: Pre-selection takes place electronically. The unit must therefore be continuously supplied with current at the permanent plus connection. If the power supply is switched off (e.g. when changing the car battery), the stations must be stored again.

Radio reception with PCI

(**P**rogram **C**omparison and **I**dentification)

The PCI system of the Berlin IQR 88 operates in the FM range with two independent, microprocessor-controlled receivers. The PCI system offers you three decisive advantages:

a) **Station identification**
The station being received is identified, and its code is indicated on the master display.

b) **Direct program selection**
By means of the secondary receiver, the set identifies all other radio stations (8 at most) whose programs may be received in your particular region. The desired programs may be recalled by pressing a button.

c) **Automatic frequency diversity** (Autodiversity)
The set switches automatically to the frequency that offers the best reception properties within the selected program.

The immense amount of information needed to store the station data makes it necessary to form alternative station data blocks for the individual European regions. These data blocks are recorded digitally on the PCI station data cassette (included in delivery) and may be entered into the PCI memory for the different regions, when necessary.

Experience shows that station data will change in the course of time (new stations are added, frequencies are changed). Blaupunkt therefore offers revised PCI station data cassettes for sale at irregular intervals.

If you would like to purchase such a cassette, kindly contact your specialized dealer.

Storing regional PCI station data cassettes

By means of the enclosed Blaupunkt data cassette, you may enter a data block. The selectable regions are shown graphically on the cassette. If you leave a certain region and want to listen to your radio program in PCI mode, you'll have to enter the station data for the new region as follows:

- Insert the cassette in the compartment. The display indicates "Tape 1" (fig. 3).
- Press the PCI button ⑭ for about 2 seconds until the display switches over (fig. 4)
- Select the appropriate region by pressing button 1+ repeatedly.
- Press then button "PRG".

The relevant data are read in without delay.

After programming the cassette is automatically wound back to the beginning and ejected.
No data from a normal cassette will be read in if such a cassette is inserted by mistake instead of the data cassette.

FM reception with PCI

Switch the set on by

- pressing the On button ⑯.
The master display briefly indicates the number of the stored data block (e.g., REG 01). If you wish to optimize FM reception you may do so by means of PCI. The PCI button ⑭ acts as sequential switch.
- Press this button repeatedly until, after the 4 wavebands, the lower display indicates the codes of radio stations (e.g., NDR, WDR, HR, RB), fig. 1.

PCI is switched on.

At the first time of doing so, or if the power supply had been switched off, it will take approx. 2 minutes until the station data are assessed and the codes of the radio stations appear in the multifunctional display.

The multifunctional display indicates the FM radio stations offering the best reception properties. If more than 4 of those may be received, their codes may be seen in the multifunctional display after pressing the PCI button again (8 radio stations at most).

Select the desired radio station (e.g., NDR, fig. 1) and

- press the corresponding button ⑳. You are now listening to the program of the station you had last selected.
The buttons 1 -4 ⑮ act as program selection buttons when PCI is activated.

If you wish to hear a different program,

- press the button whose number corresponds to the desired program (e.g., NDR2). The master display indicates the code and number of the selected radio program.

If a station cannot be received, horizontal lines will appear in the display. The radio will then automatically switch to the program of the station that was last selected.
Your Berlin IQR 88 automatically searches the station that offers the best reception properties within the selec-

Dear Madam, Dear Sir,

We would like to thank you for deciding to purchase a Berlin IQR 88. With this top quality product we offer you a fascinating range of electronically controlled functions.

Kindly read these operating instructions carefully. They will give you all the necessary information on how to operate the radio. You will find very soon that this will present no difficulties at all, since

— both displays of the set will show you quickly and precisely what you may do or what you have done,
— in PCI mode the stations offering the best reception properties may be displayed and recalled directly,
— the AVC (Automatic Volume Control) will adjust the volume to match the different driving conditions.

***

We hope that you will enjoy driving with your Berlin IQR 88.

Yours sincerely, BLAUPUNKT-WERKE GMBH

Basic guide to operation

① **Multifunctional display** (at the bottom)
indicates the function of the buttons situated below, for instance the wavebands are indicated during radio reception.

② **Master display** (at the top)
indicates the activated function, for instance the frequency is indicated during radio reception.

③ **CPS button** (Cassette Program Search)
The CPS function makes it possible to skip or repeat music tracks in combination with fast tape transport.

④ **SCA button** (SCAN)
The SCA function makes it possible to scan the cassette in combination with fast tape transport.

⑤ **Cassette compartment**

⑥ **MTL button** (Metal, distortion correction 70 μsec)
For playing chrome dioxide (CrO_2) and metal cassettes, this button should be pressed in (lights up).
For ferric trioxide (Fe_2O_3) and ferrichrome (FeCr) tapes this function should be switched off by pressing the button (distortion correction μ120 sec).

⑦ **Button DD (Dolby NR*)**
Button pressed (illuminated) - cassettes which have been recorded with Dolby NR B or Dolby NR C can be played back. Press this button repeatedly to switch from "Dolby NR-B" to "Dolby NR-C" and "Dolby NR off".
The selected mode is shown in the master display ② (fig. 1).

⑧ **MOD button** (Mode)
Switches the functions of the lower row of keys, enabling you to adjust bass, treble, balance and fader. After pressing the button, the different functions light up. The adjustment is described in the relevant paragraphs. 10 seconds after the last adjustment the set switches automatically to the initial functions (the red letters disappear), which may now be actuated again.
By pressing the MOD button again, you switch directly over to the initial functions. This button is also used for entering the code number (theft deterrent).

⑨ **Buttons** ◿
for adjusting volume.
Press the button to the right - the volume increases gradually
Press the button to the left - the volume decreases gradually.
After pressing the MOD button, the word "FADER" lights up in red above the symbol ◿.
You may now adjust the volume of the speakers -by pressing the button to the left, the volume of the rear speakers increases, by pressing the button to the right, the volume of the front speakers increases.

⑩ **AVC button** (Automatic volume control)
Button pressed (lights up) - the volume is adjusted automatically. Switch this function off by pressing the button again.

⑪ **Buttons** <> (search tuning)
Press button to the right - search tuning starts towards the higher frequencies.
Press button to the left - search tuning starts towards the lower frequencies.
After pressing the MOD button (the word BALANCE lights up), balance may be adjusted by pressing buttons <>.
Press button < – volume of the left speakers increases gradually
Press button > – volume of the right speakers increases gradually.

⑫ **REG button** (regional)
For selecting receivable regional programs transmitted by an FM radio station while the PCI system is activated, e.g. NDR1: N (Niedersachsen), H (Hamburg), S (Schleswig-Holstein).
During standard radio reception (without PCI) manual search tuning on all wavebands may be activated by pressing the button.
By pressing the REG button again or if you switch to a different waveband, this function is switched off again.

⑬ **ARI button**
The secondary receiver automatically ensures that the strongest ARI station is being received. Once the ARI function has been activated, the set is ready to broadcast traffic messages in all operating modes.

Button pressed - Travel ARI is activated.
By pressing the ARI button briefly, the Travel ARI function is switched off.

For control purposes the frequency or the code of the selected Travel ARI station may be displayed at any time in the master display by pressing the ARI button (more than 2 seconds).

⑭ **PCI button**
(Program Comparison and Identification)
Button pressed - the PCI function is activated.
If the station is identified, the code of the radio station and the corresponding program digit (e.g., NDR2) appear in the master display. The multifunctional display shows the codes of the other radio stations which may be received in this area.
By pressing the PCI button again, up to four additional radio stations that can be received may be displayed.
Deactivate the PCI function by pressing the PCI button (twice, if necessary), until the waveband symbols appear in the multifunctional display.

⑮ **Station and program buttons**
During normal radio reception (without PCI) these buttons act as **preset buttons.** Stations may be stored and recalled.
In this case the four wavebands (FM, MW, LW, SW) appear in the multifunctional display.
If the **PCI** function is activated, these buttons may be used to select the **program** of the preset radio station (e.g., NDR**2**).
If the MOD button is pressed, these buttons may be used as follows:
buttons 1 and 2 to adjust BASS, and
buttons 3 and 4 to adjust TREBLE.
The corresponding values appear on the upper display.

⑯ **ON button**
On/off switch (by pressing the button)

⑰, ⑱, ⑲, ⑳ **Multifunctional buttons**
During **normal radio reception** (without PCI), these buttons act as **waveband buttons.** If the **PCI** function is activated, these buttons may be used to select the displayed **radio stations.**

During **cassette operation,** these buttons may be used to activate cassette deck functions.

⑱ FF (fast forward)
The set switches to the other track when the end of the tape is reached.

⑳ FR (fast rewind)
The set switches to playback when the end of the tape is reached. Stop fast tape transport by pressing the PLY button.

⑲ REV (reverse)
The master display indicates which track is being played back (TAPE 1).

⑲ PLY (play)
Instead of REV during fast tape transport.

⑰ EJ (eject)